

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (original): A method of optimizing the performance of a mobile radio system in which different transfer modes correspond to different bit rates corresponding to different modulation schemes and the protocol architecture uses a radio link control layer that can operate in an acknowledged mode or in a non-acknowledged mode, in which method, in a transfer mode corresponding to the highest bit rates, acknowledgment information is sent in the non-acknowledged mode from a radio link control receiver to a radio link control sender and can be taken into account by the radio link control sender.

2. (original): A method according to claim 1, wherein said transfer modes include the General Packet Radio Service (GPRS) mode and the Enhanced General Packet Radio Service (EGPRS) mode.

3. (previously presented): A method according to either claim 1, wherein said acknowledgment information includes a Starting Sequence Number (SSN) and a Received Block Bitmap (RBB) sent in an acknowledgment/non-acknowledgment (ACK/NACK) message.

4. (previously presented): A method according to claim 1, wherein said acknowledgment information is taken into account by an RLC sender to estimate transmission quality.

5. (original): A method according to claim 4, wherein said transmission quality estimate is used for radio link adaptation.

6. (previously presented): A mobile station including means for implementing a method according to claim 1.

7. (previously presented): Mobile radio network equipment, including means for implementing a method according to claim 1.

8. (previously presented): A mobile radio system including means for implementing a method according to claim 1.

9. (new): A method of claim 1, wherein the non-acknowledged mode is General Packet Radio Service (GPRS) mode or Temporary Block Flow (TBF) mode.

10. (new): A mobile station comprising:
a radio link control (RLC) transmitter which receives acknowledgement/non-
acknowledgement (ACK/NACK) messages transmitted by an RLC receiver, said messages
comprising a start sequence number (SSN) and a received block bitmap (RRB); and
a mean for, in a transfer mode corresponding to Enhanced General Packet Radio Service
(EGPRS), taking into account SSN and RRB information transmitted in a non-acknowledged
mode.

11. (new): A mobile radiocommunication network equipment comprising:
a radio link control (RLC) transmitter which receives acknowledgement/non-
acknowledgement (ACK/NACK) messages transmitted by an RLC receiver, said messages
comprising a start sequence number (SSN) and a received block bitmap (RRB); and
a mean for, in a transfer mode corresponding to Enhanced General Packet Radio Service
(EGPRS), taking into account SSN and RRB information transmitted in a non-acknowledged
mode.